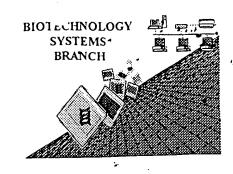
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/843221
Source:	OIPE
Date Processed by STIC:	08/28/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

4370 042

OIPE

RAW SEQUENCE LISTING DATE: 08/28/2001 PATENT APPLICATION: US/09/843,221 TIME: 10:25:17

Input Set : A:\ES.txt

Output Set: N:\CRF3\08282001\1843221.raw

3 <110>	APPLICANT: KOSTENUII	K, PAUL	Does Not Comply Corrected Diskette Needed	
5	LACEY, DAVID LEE			
7 <120>		MODULATORS OF RECEPTORS	FOR PARATHYROID HORMONE AND	
PARATHYROID H				
8	RELATED PROTEIN			
10 <130>	FILE REFERENCE: A-6	65B	0 .0 A	
12 <140>	CURRENT APPLICATION	NUMBER: 09/843,221	90+ 10N	
13 <141>	CURRENT FILING DATE	: 2001-04-26	O mest	
15 <150>	PRIOR APPLICATION N	UMBER: 60/266,673	Page 9.8 10 A	
16 <151>	PRIOR FILING DATE: 3	2001-02-06	•	
	PRIOR APPLICATION N	-		
19 <151>	PRIOR FILING DATE:	2000-06-28		
	PRIOR APPLICATION N			
	PRIOR FILING DATE:			
	NUMBER OF SEQ ID NO			
	SOFTWARE: PatentIn	version 3.1		
	SEQ ID NO: 1			
	LENGTH: 684			
	TYPE: DNA			
	ORGANISM: Homo sapie	ens	•	
	FEATURE:			
	NAME/KEY: CDS			
	LOCATION: (1)(684)		
	OTHER INFORMATION:			
	SEQUENCE: 1	gt cca cct tgt cca gct cc	eg gaa ctc ctg 48	
		ys Pro Pro Cys Pro Ala Pr		
41 Met A 42 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	10	15	
		to tto ccc cca aaa ccc aa		
		eu Phe Pro Pro Lys Pro Ly		
46	20	25	30	
		ag gtc aca tgc gtg gtg gt	g gac gtg agc 144	
		lu Val Thr Cys Val Val Va		
50	35	40 45		
52 cac g	aa gac cct gag gtc aa	ag ttc aac tgg tac gtg ga	ic ggc gtg gag 192	
		ys Phe Asn Trp Tyr Val As		
54 5	0 55	560		
		ag ccg cgg gag gag cag ta		
57 Val H	is Asn Ala Lys Thr Ly	ys Pro Arg Glu Glu Gln Ty		
58 65	70	75	80	
		tc acc gtc ctg cac cag ga		
	-	eu Thr Val Leu His Gln As		
62	85	90	95	
		ag gtc tcc aac aaa gcc ct		
-		ys Val Ser Asn Lys Ala Le		
66	100	105	110	
68 atc g	ag aaa acc atc tcc aa	aa gcc aaa ggg cag ccc cg	a gaa cca cag 384	

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Input Set : A:\ES.txt
Output Set: N:\CRF3\08282001\I843221.raw

69 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln	•
70 115 120 125	422
72 gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc	432
73 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val	
74 130 135 140	100
76 age etg ace tge etg gte aaa gge tte tat eee age gae ate gee gtg	480
77 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val	
78 145 150 155 160	
80 gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct	528
81 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro	
82 165 170 175	•
84 ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc	576
85 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr	
86 180 185 190	•
88 gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg	624
89 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val	
90 195 200 205	
92 atg cat gag get etg cae aac cae tae aeg eag aag age ete tee etg	672
93 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu	
94 210 215 220	
96 tct ccg ggt aaa	684
97 Ser Pro Gly Lys	
98 225	
101 <210> SEQ ID NO: 2	
102 <211> LENGTH: 228	•
103 <212> TYPE: PRT	
104 <213> ORGANISM: Homo sapiens	
106 <400> SEQUENCE: 2	
108 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu	
109 1 5 10 15	
112 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu	
113 20 25 30	
116 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser	
117 35 40 45	
120 His Glu Asp Pro Glu Val Lys Phe Asn'Trp Tyr Val Asp Gly Val Glu	
121 50 55 60	
124 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr	
125 65 70 75 80	
128 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn	
129 85 90 95	•
132 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro	
132 GIY MYS GIA TYT MYS CYS MYS VAT SET MSM MYS MIA DEA TIG MIA TIG	
-136-Ile-Glu-Lys-Thr-Ile-Ser-Lys-Ala-Lys-Gly-Gln-Pro-Arg-Glu-Pro-Gln	
137 115 120 125	
140 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val	
	•
	•
144 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val	•
144 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp 11e Ala Val 145 145 150 155 160 148 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro	

DATE: 08/28/2001

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PATENT APPLICATION: US/09/843,221
                                                              TIME: 10:25:17
                     Input Set : A:\ES.txt
                     Output Set: N:\CRF3\08282001\1843221.raw
     149
                         165
                                              170
     152 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
     153
                     180
                                          185
     156 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
                                     200
     160 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
             210
                                 215
     161
     164 Ser Pro Gly Lys
     165 225
     168 <210> SEQ ID NO: 3
     169 <211> LENGTH: 21
     170 <212> TYPE: PRT
     171 <213> ORGANISM: Artificial Sequence
     173 <220> FEATURE:
     174 <223> OTHER INFORMATION: PTH/PTHrP
     176 <220> FEATURE:
     177 <221> NAME/KEY: misc_feature
     178 <222> LOCATION: (1)..(1)
     179 <223> OTHER INFORMATION: Optional attachment to X3X4X5X6X7, X2X3X4X5X6X7,
X1X2X3X4X5X6X7
               , or YX1X2X3X4X5X6X7
     180
     183 <220> FEATURE:
     184 <221> NAME/KEY: misc_feature
     185 <222> LOCATION: (1)..(1)
     186 <223> OTHER INFORMATION: X8 is an amino acid residue (nonfunctional residue
preferred, M o
               r Nle most preferred)
     187
     190 <220> FEATURE:
     191 <221> NAME/KEY: misc_feature
     192 <222> LOCATION: (3)..(3)
     193 <223> OTHER INFORMATION: X10 is an amino acid residue (an acidic or hydrophilic
residue pr
               eferred, N or D most preferred)
     194
     197 <220> FEATURE:
     198 <221> NAME/KEY: misc_feature
     199 <222> LOCATION: (4)..(4)
     200 <223> OTHER INFORMATION: X11 is an amino acid residue (nonfunctional or basic residue
pref
               erred, L, R, or K most preferred)
     201
     204 <220> FEATURE:
     205 <221> NAME/KEY: misc_feature
     206 <222> LOCATION: (5)..(5)
     -207-<223>-OTHER-INFORMATION:-X12-is-an-amino-acid-residue-(nonfunctional-or-aromatic-
residue p
               referred, G, F, or W most preferred)
     208
     211 <220> FEATURE:
     212 <221> NAME/KEY: misc_feature
     213 <222> LOCATION: (7)..(7)
     214 <223> OTHER INFORMATION: X14 is an amino acid residue (basic or hydrophilic residue
prefer
               red, H or S most preferred)
     215
     218 <220> FEATURE:
     219 <221> NAME/KEY: misc_feature
```

RAW SEQUENCE LISTING

220 < 222 > LOCATION: (8)..(8) 221 < 223 > OTHER INFORMATION: X15 is an amino acid residue (nonfunctional residue preferred, wi

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Input Set : A:\ES.txt
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               th L or I most preferred)
     225 <220> FEATURE:
     226 <221> NAME/KEY: misc_feature
     227 <222> LOCATION: (9)..(9)
     228 <223> OTHER INFORMATION: X16 is an amino acid residue (nonfunctional or hydrophilic
residu
               e preferred, Q, N, S, or A most preferred)
     229
     232 <220> FEATURE:
     233 <221> NAME/KEY: misc_feature
     234 <222> LOCATION: (10)..(10)
     235 <223> OTHER INFORMATION: X17 is an amino acid residue (acidic, hydrophilic, or
nonfunction
               al residue preferred, S, D, or L most preferred)
     236
     239 <220> FEATURE:
     240 <221> NAME/KEY: misc_feature
     241 <222> LOCATION: (11)..(11)
     242 <223> OTHER INFORMATION: X18 is an amino acid residue (nonfunctional residue
preferred, M,
     243
               L, V or Nle most preferred)
     246 <220> FEATURE:
     247 <221> NAME/KEY: misc_feature
     248 <222> LOCATION: (12)..(12)
     249 <223> OTHER INFORMATION: X19 is an amino acid residue (acidic or basic residue
preferred,
               E or R most preferred)
     250
     253 <220> FEATURE:
     254 <221> NAME/KEY: misc_feature
     255 <222> LOCATION: (14)..(14)
     256 <223> OTHER INFORMATION: X21 is an amino acid residue (nonfunctional residue or basic
res
               idue preferred; V, M, R, or Nle most preferred)
     257
     260 <220> FEATURE:
     261 <221> NAME/KEY: misc_feature
     262 <222> LOCATION: (15)..(15)
     263 <223> OTHER INFORMATION: X22 is an amino acid residue (hydrophilic, acidic, or
aromatic r
               esidue preferred, E or F most preferred)
     264
     267 <220> FEATURE:
     268 <221> NAME/KEY: misc_feature
     269 <222> LOCATION: (16)..(16)
     270 <223> OTHER INFORMATION: X23 is an aromatic or lipophilic residue (W or F preferred)
     273 <220> FEATURE:
     274 <221> NAME/KEY: misc_feature____
     275 <222> LOCATION: (17)..(17)
     276 <223> OTHER INFORMATION: X24 is a lipophilic residue (L preferred)
     279 <220> FEATURE:
     280 <221> NAME/KEY: misc_feature
     281 <222> LOCATION: (18)..(18)
     282 <223> OTHER INFORMATION: X25 is an amino acid residue (hydrophilic or basic residue
prefe
              rred, R or H most preferred)
     283
     286 <220> FEATURE:
     287 <221> NAME/KEY: misc_feature
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/843,221

288 <222> LOCATION: (19)..(19)
289 <223> OTHER INFORMATION: X26 is an amino acid residue (hydrophilic or basic residue prefe

rred, K or H most preferred) 290

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Input Set : A:\ES.txt
                     Output Set: N:\CRF3\08282001\I843221.raw
     293 <220> FEATURE:
     294 <221> NAME/KEY: misc_feature
     295 <222> LOCATION: (20)..(20)
     296 <223> OTHER INFORMATION: X27 is an amino acid residue (lipophilic, basic, or
nonfunctiona
     297
               1 residue preferred, K or L most preferred)
     300 <220> FEATURE:
     301 <221> NAME/KEY: misc_feature
     302 <222> LOCATION: (21)..(21)
     303 <223> OTHER INFORMATION: X28 is an amino acid residue (lipophilic or nonfunctional
residu
               e preferred, L or I most preferred)
     304
     307 <220> FEATURE:
     308 <221> NAME/KEY: misc_feature
     309 <222> LOCATION: (21)..(21)
     310 <223> OTHER INFORMATION: Optional attachment to X29, X29X30, X29X30X31, X29X30.
X31X32, X29
               x30x31x32x33, x29x30x31x32x33x34, x29x30x31x32x33x34x35, or x29x
     311
     312
               30X31X32X33X34X35X36
     315 <400> SEQUENCE: 3
W--> 317 Xaa His Xaa Xaa Xaa Lys Xaa Xaa Xaa Xaa Xaa Arg Xaa Xaa Xaa
                                              10
     318 1
W--> 321 Xaa Xaa Xaa Xaa Xaa
     322
                     20
     325 <210> SEQ ID NO: 4
     326 <211> LENGTH: 22
     327 <212> TYPE: PRT
     328 <213> ORGANISM: Artificial Sequence
     330 <220> FEATURE:
     331 <223> OTHER INFORMATION: PTH/PTHrP
     333 <220> FEATURE:
     334 <221> NAME/KEY: misc_feature
     335 <222> LOCATION: (1)..(1)
     336 <223> OTHER INFORMATION: Optional attachment to J1J2J3J4J5J6, J2J3J4J5J6, J3J4J5J6
     339 <220> FEATURE:
     340 <221> NAME/KEY: misc_feature
     341 <222> LOCATION: (1)..(1)
     342 <223> OTHER INFORMATION: J7 is an amino acid residue (nonfunctional or aromatic
residue pr
               eferred, L or F most preferred)
     343
     346 <220> FEATURE:
     347 <221> NAME/KEY: misc_feature
     348 <222> LOCATION: (2)...(2)
     349 <223> OTHER INFORMATION: J8 is an amino acid residue (nonfunctional residue
preferred, M o
               r Nle most preferred)
     350
     353 <220> FEATURE:
     354 <221> NAME/KEY: misc_feature
     355 <222> LOCATION: (6)..(6)
     356 <223> OTHER INFORMATION: J12 is an amino acid residue (nonfunctional or aromatic
residue p
     357
               referred, G or W most preferred)
     360 <220> FEATURE:
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/843,221

361 <221> NAME/KEY: misc_feature 362 <222> LOCATION: (10)..(10)

'<210> SEQ ID NO 17

<211> LENGTH: 34

<212> TYPE: PRT

<213> ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Errored Field 213 response requires
SEQUENCE: 17 Field 223 explanation or description
Ser Val Ser Glu Ile Gln Leu Met His Ash Arg Gly Lys His Leu Asn
1 5 10 <220> FEATURE: <223> OTHER INFORMATION: :

<400> SEQUENCE: 17

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His

Asn Phe

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/843,221

DATE: 08/28/2001 TIME: 10:25:18

Input Set : A:\ES.txt

Output Set: N:\CRF3\08282001\1843221.raw

L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

L:703 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ (ID#:17

L:705 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:705 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: